

Date: 2/11/92

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SID: Z ~~ORIGINAL~~  
(Red)

# FINAL TRIP REPORT.

~~PH~~: PH-2898

Site name: Linfield Industrial Park



*felma*

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(Red)**

999 WEST VALLEY ROAD WAYNE, PENNSYLVANIA 19087 (215) 971-0900

C-51-2-2-42

February 10, 1992

Project Number 3263-09

Ms. Maggie Jennis  
United States Environmental Protection Agency  
841 Chestnut Building  
Ninth and Chestnut Streets  
Philadelphia, Pennsylvania 19107

Reference: ARCS III Program  
EPA Contract No. 68-W8-0037

Subject: Trip Report  
Work Assignment No. 37-34-3JZZ  
Linfield Industrial Park  
EPA DSN PA-2898  
EPA ID No. PAD987332814  
Exton, Chester County, Pennsylvania

Dear Ms. Jennis:

Submitted herewith is the trip report for the subject site. If you have any questions, please do not hesitate to call.

Respectfully,

**(b) (4)**

Project Manager

AF/law

cc: Gregory Ham (EPA Region III)  
Jeffrey Barnett (EPA Region III)  
Sidney Ozer (EPA Region III)  
**(b) (4)** (HALLIBURTON NUS)  
**(b) (4)** (HALLIBURTON NUS)  
**(b) (4)** (HALLIBURTON NUS)  
Project File

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R-51-2-2-5

**TRIP REPORT  
SCREENING SITE INSPECTION**

**LINFIELD INDUSTRIAL PARK**

**EPA DSN PA-2898  
FACILITY ID NO. PAD987332814  
EXTON, CHESTER COUNTY, PENNSYLVANIA**

**EPA WORK ASSIGNMENT 37-34-3JZZ  
CONTRACT NUMBER 68-W8-0037**

**FEBRUARY 1992**

**DISCLOSURE STATEMENT**

This document contains proprietary information. The information furnished in this document shall not be disclosed in whole or in part for any purpose other than to evaluate such information in accordance with the terms of Contract Number 68-W8-0037.



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R-51-2-2-5

**TRIP REPORT  
SCREENING SITE INSPECTION**

**LINFIELD INDUSTRIAL PARK**

**EPA DSN PA-2898  
FACILITY ID NO. PAD987332814  
EXTON, CHESTER COUNTY, PENNSYLVANIA**

**EPA WORK ASSIGNMENT NUMBER 37-34-3JZZ  
CONTRACT NUMBER 68-W8-0037**

**HALLIBURTON NUS PROJECT NUMBER 3263**

**FEBRUARY10, 1992**

**Submitted by:**

**(b) (4)**

**Site Manager**

**Reviewed and approved by:**

**(b) (4)**

**Project Manager**

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**(Red)**

## **SECTION 1.0**

## 1.0 FIELD TRIP REPORT

### 1.1 SUMMARY

On Tuesday, January 28, 1992, HALLIBURTON NUS ARCS III personnel (b) (4) conducted a site inspection of the Linfield Industrial Park Site in Linfield, Montgomery County, Pennsylvania. Weather conditions were clear with light winds, and temperatures were in the 30s.

Eleven aqueous and 14 solid samples were obtained (see figures 3 and 4, attachment 1).

#### Deviations from the Sampling Plan

- The on-site production well could not be sampled because there was an inoperative pump inside the well.
- An additional soil sample was taken in an area of stressed vegetation at the southern end of the site.

### 1.2 PERSONS CONTACTED

#### 1.2.1 Prior to Field Trip

Bernard Shafran  
Frenkel and Hershkowitz, P.C.  
Attorneys at Law  
319 Fifth Avenue  
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1.2.1 Post Field Trip

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Zelma Maldonado  
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Ninth and Chestnut Streets  
Philadelphia, PA 19107  
(215) 597-8333

1.2.3 Water Supply Well Information

The following off-site wells were sampled during the site inspection. For the locations of these wells, see figure 3 (attachment 1). Completed well questionnaires are located in attachment 3.

(b) (6)

Linfield, Pennsylvania 19468

(b) (6)

Drinking

(b) (6)

(b) (6)

Linfield, Pennsylvania 19468

(b) (6)

Drinking

(b) (6)

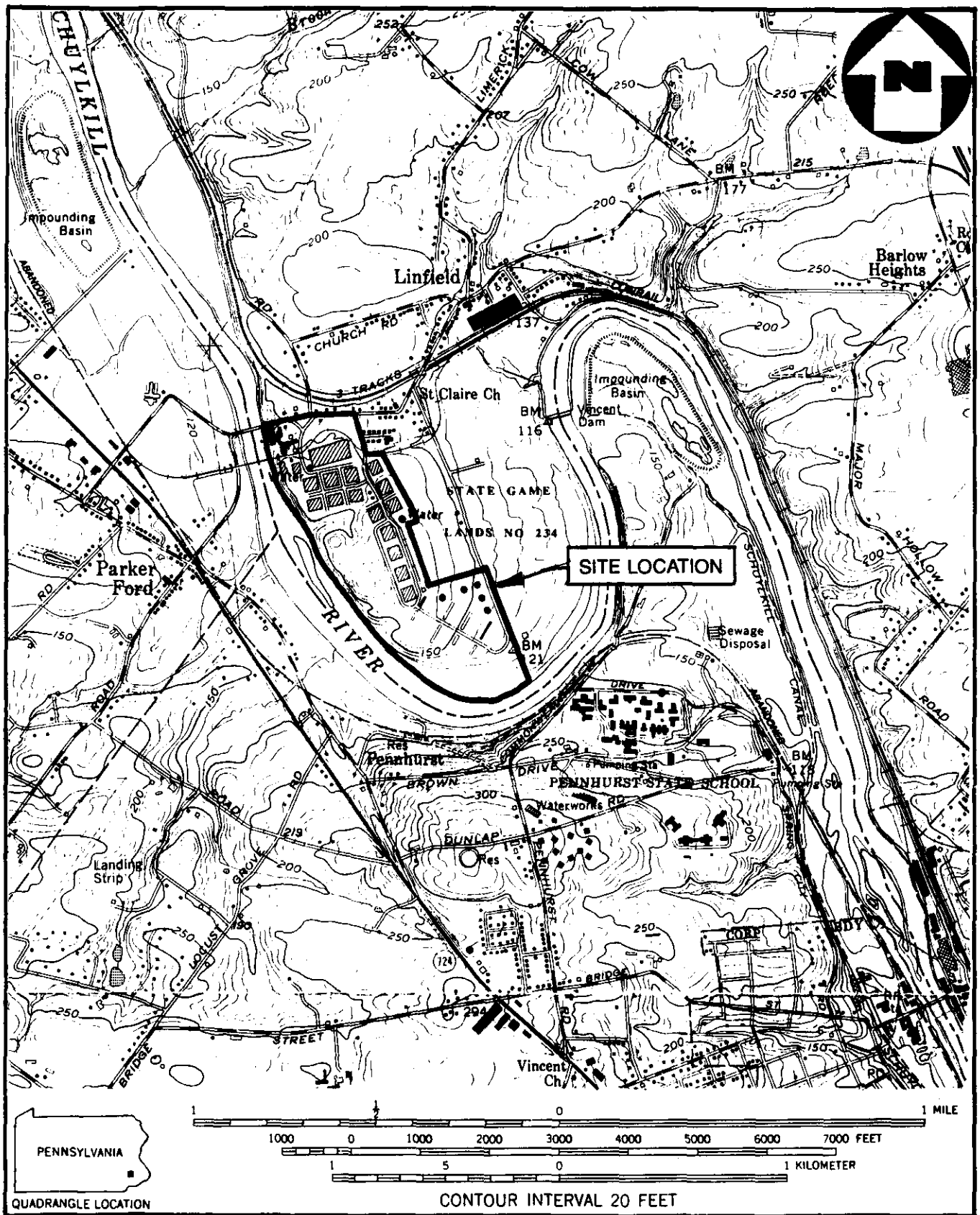
### 1.3 SITE OBSERVATIONS

(Rec)

- The background HNU reading was 0.4 ppm. No readings above background were recorded.
- The radiation mini-alert was set on the X1 position. No readings above background were recorded.
- The entrance gate to the site was fitted with a lock and chain.
- There was a fence on the northeastern corner of the site. Otherwise, pedestrian access to the site was unrestricted.
- The on-site production well was not accessible for sampling. An inoperative pump was inside the well.
- A trash dump, consisting mostly of empty plastic antifreeze containers, was west of the southernmost warehouse. The dump measured approximately 30 by 75 feet. Adjacent to the dump were approximately 60 drums that were upright, empty, and rusted. No markings were visible on the drums.
- Two areas of stressed vegetation were observed onsite: an approximately 20- by 100-foot area in the middle of the site, between the warehouse and the Schuylkill River, and an approximately 100- by 100-foot area at the southern end of the site. The vegetation in these two areas was identical.
- Bicycle tracks were observed in the snow between the third and fourth warehouse from the southernmost warehouse.
- Shotgun shells were observed throughout the site.



**ATTACHMENT NO. 1**



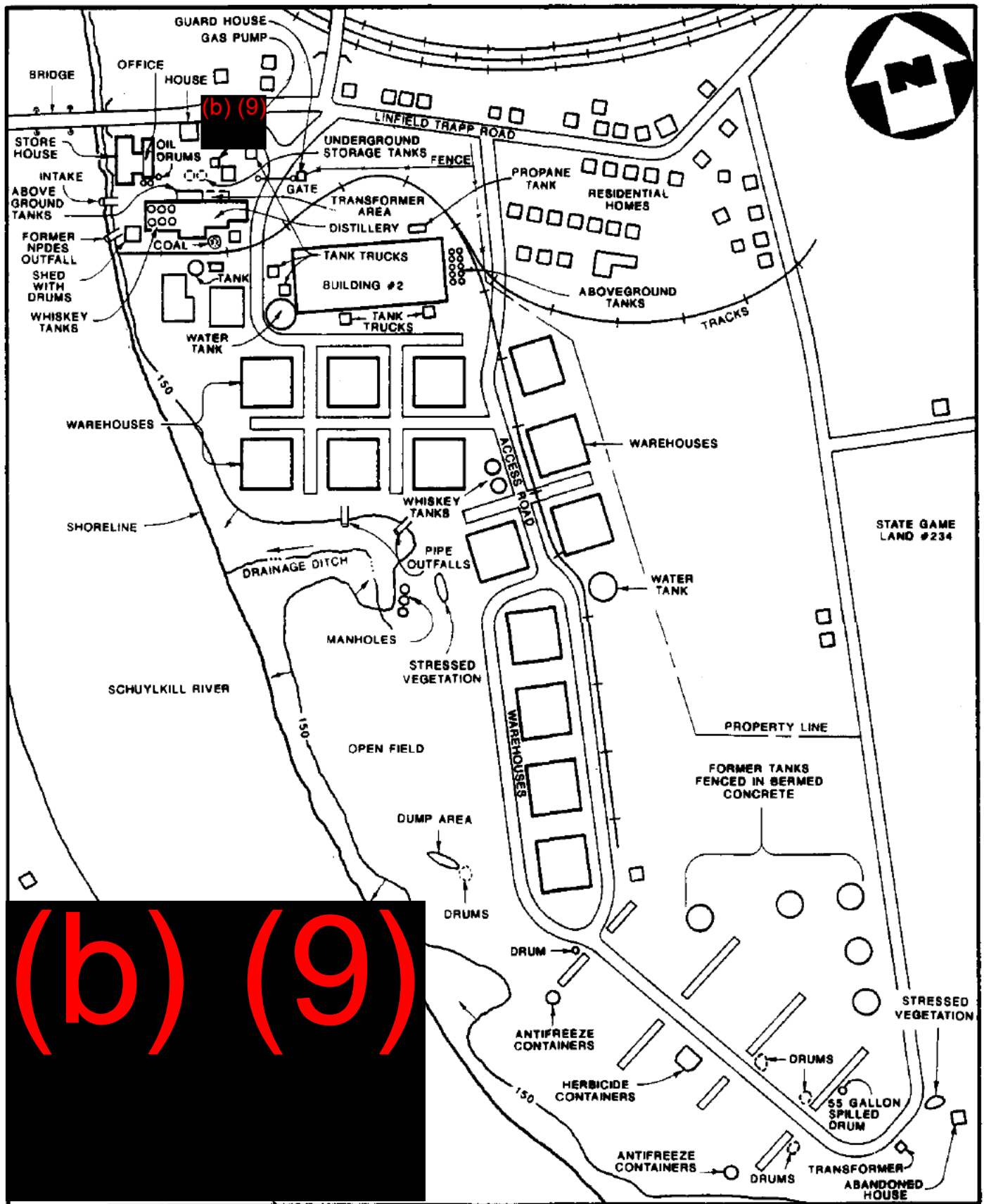
SOURCE: (7.5 MINUTE SERIES) U.S.G.S. PHOENIXVILLE, PA QUAD.

**SITE LOCATION MAP**  
**LINFIELD INDUSTRIAL PARK, LINFIELD, PA.**

SCALE 1: 24000

FIGURE 1





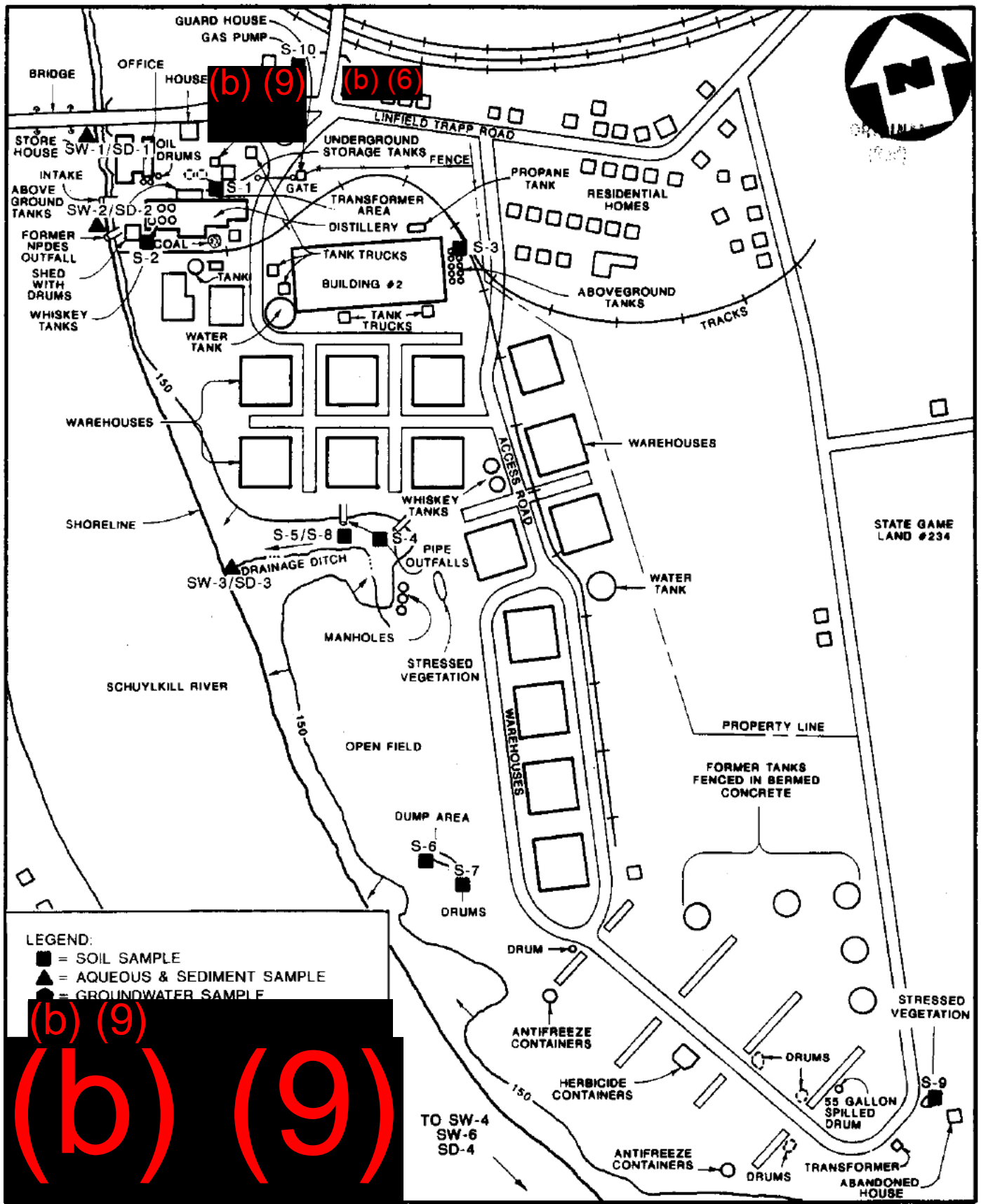
SITE SKETCH

LINFIELD INDUSTRIAL PARK, LINFIELD, PA.

(NO SCALE)

FIGURE 2





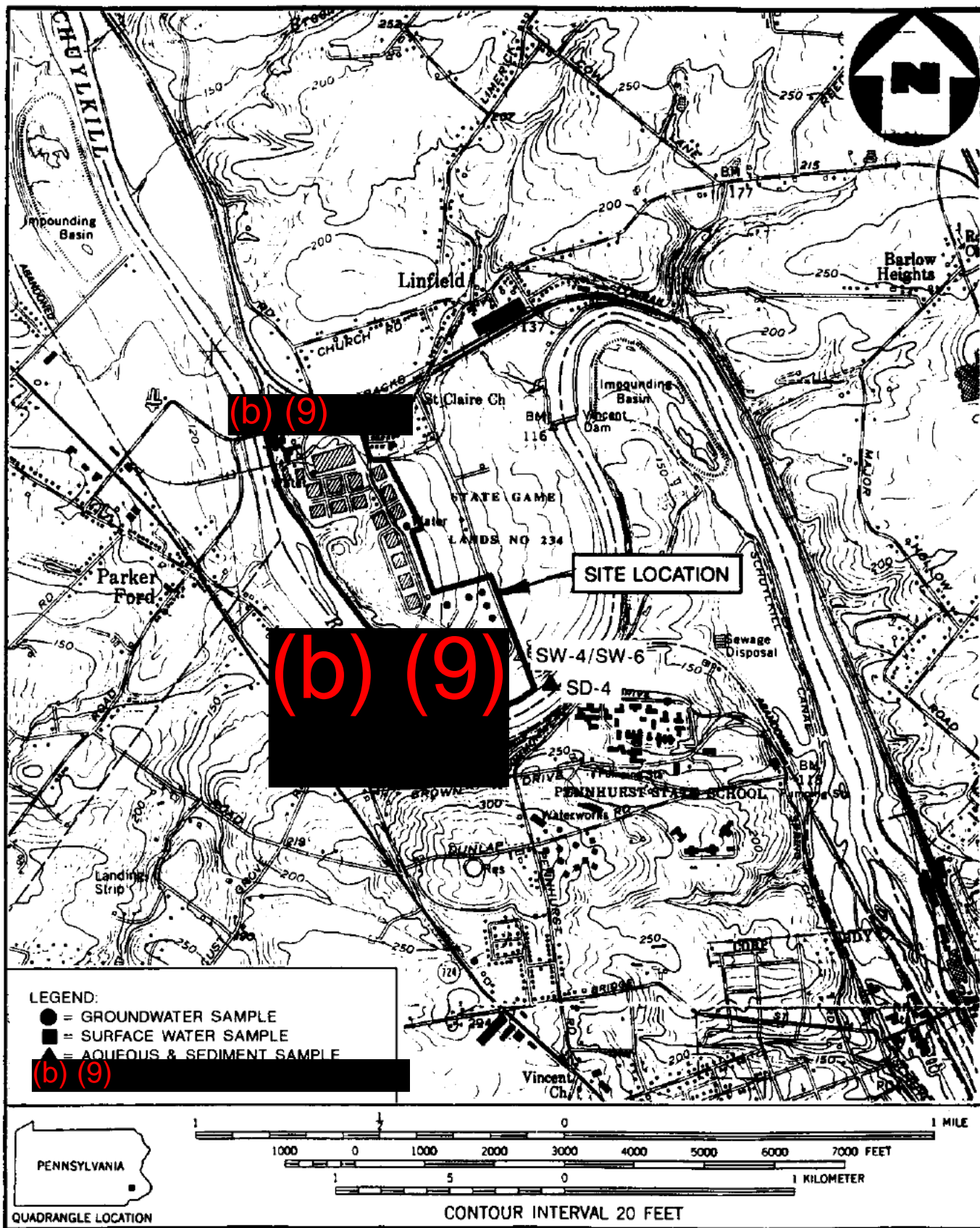
**SAMPLE LOCATION MAP**

**LINFIELD INDUSTRIAL PARK, LINFIELD, PA.**

(NO SCALE)

**FIGURE 3**





SOURCE: (7.5 MINUTE SERIES) U.S.G.S. PHOENIXVILLE, PA QUAD.

**OFF-SITE SAMPLE LOCATION MAP**  
**LINFIELD INDUSTRIAL PARK, LINFIELD, PA.**

SCALE 1: 24000

FIGURE 4



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**ATTACHMENT NO. 2**



TDD NUMBER 3263-09  
 EPA NUMBER PA-2898

# SAMPLE LOG

SITE NAME Linfield Industrial Park

TRAFFIC REPORTS			SAMPLE IDENTIFIER	PHASE	SAMPLE DESCRIPTION	SAMPLE LOCATION	TARGET USE	pH	FIELD MEASUREMENTS
Organic	Inorganic	High Hazard							
CHY 02	MCJE 02		(b) (9)	AQ	Clear, no odor	(b) (9)	Drinking water for the people of Spring City and Royersford		No HNU readings above bkgd.
CHY 03	MCJE 03		(b) (9)	AQ	clear, no odor	(b) (9) Linfield, PA	Drinking		
CHY 04	MCJE 04		(b) (9)	AQ	clear, no odor	(b) (9) Linfield, PA	Drinking		
CHY 05	MCJE 05		SW-1	AQ	clear, fish-like odor	Upstream sample from Schuylkill R., under Main St. bridge	Recreation; three water companies operate intakes within 15 miles downstream	6.92	No HNU readings above background
CHY 06	MCJE 06		SW-2	AQ	clear, no odor	Mid-stream sample from Schuylkill R., at former NPDES discharge	Recreation; three water companies operate water intakes within 15 miles downstream	6.72	
CHY 07	MCJE 07		SW-3	AQ	clear, no odor	On-site drainage swale ~ 30' from confluence with Schuylkill R.	No uses	6.70	
CHY 08	MCJE 08		SW-4	AQ	slightly turbid, no odor	Downstream sample from Schuylkill R.	Recreation; three water companies operate intakes within 15 miles downstream	6.97	
CHY 10	MCJE 10		SW-6	AQ	Duplicate of SW-4	Same as SW-4	same as SW-4		
CHY 09	MCJE 09		(b) (9)	AQ	Clear, no odor	(b) (9)	Drinking water for Spring City and Royersford		

TOD NUMBER 3263-09  
 EPA NUMBER PA-2898

# SAMPLE LOG

SITE NAME Linfield Industrial Park

TRAFFIC REPORTS			SAMPLE IDENTIFIER	PHASE	SAMPLE DESCRIPTION	SAMPLE LOCATION	TARGET USE	pH	FIELD MEASUREMENTS	
Organic	Inorganic	High Hazard								
CHY 24	MCJE 24		AQ-0	AQ	Aqueous blank	_____	_____		_____	
CHY 11	MCJE 11		Sd-1	SOL	light brown silt, red shale pebbles, some organic matter	same as SW-1	Access unrestricted		No HNU readings above background	
CHY 12	MCJE 12		Sd-2	SOL	light brown silt, some organic matter	same as SW-2	Access unrestricted			
CHY 13	MCJE 13		Sd-3	SOL	clayey silt, reddish	same as SW-3	Access unrestricted			
CHY 14	MCJE 14		Sd-4	SOL	Brown sandy loam	same as SW-4	Access unrestricted			
CHY 15	MCJE 15		S-1	SOL	dark brown sandy loam on site	At base of transformer on northern side of distillery	Access unrestricted			
CHY 16	MCJE 16		S-2	SOL	black viscous silty clay with grease odor on site	At drums outside of shed west of distillery	Access unrestricted			
CHY 17	MCJE 17		S-3	SOL	Brown loam with some rocks and reddish clay on site	Inside above ground tank farm on eastern side of building #2	Access unrestricted			
CHY 18	MCJE 18		S-4	SOL	Brown sandy loam on site	At confluence of two concrete drainage troughs south and west of warehouses	Access unrestricted			↓



EPA NUMBER PA-2898

SITE NAME Linfield Industrial Park

[illegible]

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**ATTACHMENT NO. 3**

## HOME WELL SURVEY

Home Owner's Name: (b) (6) Date: \_\_\_\_\_

Address: (b) (6) Home Phone: (b) (6)  
Wentzville Work Phone: \_\_\_\_\_  
 \_\_\_\_\_

1. Please describe the type of home well you presently utilize:  
 (Check those which apply)

\_\_\_\_\_ Dug well  
☒ Drilled by a rig; if so, please identify company (name, address, and phone):  
Gurber - Sarsburgville  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ Other (describe) \_\_\_\_\_

- 1a. Please estimate the following: Year installed unknown  
 Date of last service 2 yrs ago  
 Company who serviced (name, address, and phone): New Pump  
 \_\_\_\_\_  
 \_\_\_\_\_

2. Please provide the following measurements of your well:

a. (b) (9)  
 b. (b) (9)

3. Please describe the casing material used in your well:

a. Composition  
☒ Iron \_\_\_\_\_ PVC \_\_\_\_\_ Galvanized \_\_\_\_\_ Terra Cotta \_\_\_\_\_  
 \_\_\_\_\_ Other - Please Specify (if known) \_\_\_\_\_

b. Length (if known): unknown

## HOME WELL SURVEY

Home Owner's Name: \_\_\_\_\_

(b) (6)

Date: \_\_\_\_\_

4. Please describe, if known, any screening material used in your well:

a. Length of screen: \_\_\_\_\_

b. Depth of screen in well: \_\_\_\_\_

5. Please indicate, if known, the depth to the groundwater in your well (from the surface):

unknown

6. Please indicate the composition of home plumbing (pipes) in your system:

\_\_\_\_\_ Iron

\_\_\_\_\_ PVC

\_\_\_\_\_ Galvanized

\_\_\_\_\_ Lead

x Other (describe): Copper

7. Please describe the water pump used in your system:

a. Location of the pump

~~\_\_\_\_\_~~ Inside the well (submersible pump); Depth in well: \_\_\_\_\_

\_\_\_\_\_ Outside the well (indicate location): \_\_\_\_\_

b. Type of pump

Branch (if known): \_\_\_\_\_

Capacity (gallons per minute): \_\_\_\_\_

c. Estimate hours of pump operation per day: \_\_\_\_\_

d. Is storage tank used: ✓ Yes \_\_\_\_\_ NoType (material) Aluminum

Capacity \_\_\_\_\_

8. a. Do you regularly or have you ever added chemicals directly to your well?  
(i.e., chlorine, clorox, etc.) \_\_\_\_\_ Yes ✓ No

If yes, date last added: \_\_\_\_\_

Approximate amount added \_\_\_\_\_

Compound (brand name): \_\_\_\_\_

## HOME WELL SURVEY

WELL ID:  
(H2O)

Home Owner's Name: \_\_\_\_\_

(b) (6)

Date: \_\_\_\_\_

- b. Please describe any type of water treatment you are currently using (check those which apply):

\_\_\_\_\_ Filtration

\_\_\_\_\_ Other (explain)

Type: \_\_\_\_\_

\_\_\_\_\_ none

\_\_\_\_\_ Water Softeners

Indicate Brand: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

9. Please indicate any testing that has been done on your water:

Date of testing: none

Name of individual(s) responsible for testing: \_\_\_\_\_

10. Well Use: ☒ Drinking ☒ Other: household

11. Do you notice color, taste, or odor problems with well water? ☐ Yes ☒ No  
If yes, identify: \_\_\_\_\_

Do you notice water supply problems? ☐ Yes ☒ No

If yes, when: \_\_\_\_\_ how often: \_\_\_\_\_

12. Please indicate the type(s) of wastewater system used (check):

Sewer Line ☒

Septic Tank \_\_\_\_\_ Cesspool \_\_\_\_\_ Drain Field \_\_\_\_\_

Distance to Well \_\_\_\_\_

13. We may be taking water samples from many area homes in the near future. If your well is chosen for sampling, would you be willing to allow our NUS representatives to sample your well? Sampling involves collecting water from one of your indoor or outdoor spigots.

☒

Yes, I will allow my well to be sampled.

\_\_\_\_\_

No, I will not allow my well to be sampled.

### HOME WELL SURVEY

Home Owner's Name: \_\_\_\_\_

(b) (6)

Date: \_\_\_\_\_

If yes, please indicate the time of day which would be convenient for us to sample.

\_\_\_\_\_ Morning

\_\_\_\_\_ Afternoon

\_\_\_\_\_ Evening

14. In the space below, please furnish a rough sketch of your property, indicating the location of your well and on-lot wastewater system, if applicable. Also indicate the location of the spigot you would prefer us to sample.

outside faucet.

HW-2

## HOME WELL SURVEY

Home Owner's Name: (b) (6)

Date: 1/28/92

Address: (b) (6)

Home Phone: (b) (6)

Work Phone: \_\_\_\_\_

1. Please describe the type of home well you presently utilize:  
(Check those which apply)

☐ Dug well☒ Drilled by a rig; if so, please identify company (name, address, and phone):

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

☐ Other (describe) \_\_\_\_\_

- 1a. Please estimate the following: Year installed \_\_\_\_\_

Date of last service 65

Company who serviced (name, address, and phone): \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_

2. Please provide the following measurements of your well:

a. (b) (9)  
 b. (b) (9)

3. Please describe the casing material used in your well:

a. Composition

☐ Iron☒ PVC☐ Galvanized☐ Terra Cotta☐ Other - Please

Specify (if known)

b. Length (if known): \_\_\_\_\_

## HOME WELL SURVEY

Home Owner's Name: \_\_\_\_\_

(b) (6)

Date: \_\_\_\_\_

4. Please describe, if known, any screening material used in your well:

a. Length of screen: \_\_\_\_\_

b. Depth of screen in well: \_\_\_\_\_

5. Please indicate, if known, the depth to the groundwater in your well (from the surface):

55

6. Please indicate the composition of home plumbing (pipes) in your system:

☒ Iron    ☐ PVC    ☐ Galvanized    ☐ Lead  
☐ Other (describe): \_\_\_\_\_

7. Please describe the water pump used in your system:

a. Location of the pump

☒ Inside the well (submersible pump); Depth in well: \_\_\_\_\_☐ Outside the well (indicate location): \_\_\_\_\_

b. Type of pump

Branch (if known): \_\_\_\_\_

Capacity (gallons per minute): \_\_\_\_\_

c. Estimate hours of pump operation per day: \_\_\_\_\_

d. Is storage tank used: ☒ Yes    ☐ NoType (material) \_\_\_\_\_ Capacity 80

8. a. Do you regularly or have you ever added chemicals directly to your well?

(i.e., chlorine, clorox, etc.) ☐ Yes    ☒ No

If yes, date last added: \_\_\_\_\_ Approximate amount added \_\_\_\_\_

Compound (brand name): \_\_\_\_\_



## HOME WELL SURVEY

Home Owner's Name: \_\_\_\_\_

(b) (6)

Date: \_\_\_\_\_

- b. Please describe any type of water treatment you are currently using (check those which apply):

\_\_\_\_\_ Filtration

\_\_\_\_\_ Other (explain)

Type: \_\_\_\_\_

\_\_\_\_\_ Water Softeners

Indicate Brand: \_\_\_\_\_

9. Please indicate any testing that has been done on your water:

Date of testing: \_\_\_\_\_

Name of individual(s) responsible for testing: \_\_\_\_\_

10. Well Use: \_\_\_\_\_ ☒ Drinking \_\_\_\_\_ Other: \_\_\_\_\_

11. Do you notice color, taste, or odor problems with well water? \_\_\_\_\_ Yes ☒ No  
If yes, identify: \_\_\_\_\_

Do you notice water supply problems? \_\_\_\_\_ Yes ☒ No

If yes, when: \_\_\_\_\_ how often: \_\_\_\_\_

12. Please indicate the type(s) of wastewater system used (check):

Sewer Line ☒

Septic Tank \_\_\_\_\_ Cesspool \_\_\_\_\_ Drain Field \_\_\_\_\_

Distance to Well \_\_\_\_\_

13. We may be taking water samples from many area homes in the near future. If your well is chosen for sampling, would you be willing to allow our NUS representatives to sample your well? Sampling involves collecting water from one of your indoor or outdoor spigots.

\_\_\_\_\_ Yes, I will allow my well to be sampled.

\_\_\_\_\_ No, I will not allow my well to be sampled.

## HOME WELL SURVEY

Home Owner's Name: \_\_\_\_\_ (b) (6) \_\_\_\_\_ Date: \_\_\_\_\_

If yes, please indicate the time of day which would be convenient for us to sample.

\_\_\_\_\_ Morning \_\_\_\_\_ Afternoon \_\_\_\_\_ Evening

14. In the space below, please furnish a rough sketch of your property, indicating the location of your well and on-lot wastewater system, if applicable. Also indicate the location of the spigot you would prefer us to sample.